Index of Claims

Application No.

09/995,135 Examiner

Toan Ton

MATSUURA ET AL.

Art Unit

Applicant(s)

2871

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N

Interference

Appeal Α 0 Objected

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|       |  |          |              |  |          |                |          |          |  | $\neg$   |  |  |  |  |
| Cla   |  | Date     |              |  |          |                |          |          |  |          |  |  |  |  |
| Final | Original   | 4/30/04  |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 1  | =        |              |  |          | _              |          |          |  |          |  |  |  |  |
|       | 2  | =        | _            |  | ,        |                |          |          | _  |          |  |  |  |  |
|       | 3  | =        |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 4  | =        |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 5  | =        |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 6  | ▔        |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 1<br>2<br>3<br>4<br>5<br>6                               | =        |              |  |          |                |          |          |  |          |  |  |  |  |
|       |  | =        |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 8<br>9   |          |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 10   |          |              |  |          |                |          |          |  | Ш        |  |  |  |  |
|       | 11   |          |              |  |          |                |          |          |  | Ш        |  |  |  |  |
|       | 12   | <u> </u> | L_           |  |          | <u>L</u>       |          |          |  | Ц        |  |  |  |  |
|       | 13   |          | <u>_</u>     |  |          | <u> </u>       |          |          |  | Щ        |  |  |  |  |
|       | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19 | L_       | <u> </u>     | _  |          | <u> </u>       | _        |          | $\vdash$   | H        |  |  |  |  |
|       | 15   | <u> </u> |              | <u> </u>   |          | <u> </u>       | -        | _        |  | Н        |  |  |  |  |
|       | 16   | -        |              |  | _        | <u> </u>       |          |          |  | $\vdash$ |  |  |  |  |
|       | 17   | <u> </u> | <u> </u>     |  | ⊢        |                | -        |          | _  |          |  |  |  |  |
|       | 18   | ├-       |              |  |          | _              |          |          | <u> </u>   |          |  |  |  |  |
|       | 19   | ₩        | <del> </del> |  | <u> </u> |                | ├        | _        |  | $\vdash$ |  |  |  |  |
|       | 20   | -        |              |  | ├        | _              | ⊢        |          | <del>                                     </del> |          |  |  |  |  |
|       | 21   | ┢        | -            |  |          | -              | -        |          | $\vdash$   | H        |  |  |  |  |
|       | 23   | 1        | ├            |  | $\vdash$ |                | -        | -        | $\vdash$   | H        |  |  |  |  |
|       | 24   | $\vdash$ |              | -  | ┝        |                | H        | $\vdash$ | -  | $\vdash$ |  |  |  |  |
|       | 25   |          |              | -  |          |                |          | H        | _  |          |  |  |  |  |
|       | 26   |          |              |  |          |                | $\vdash$ |          | -  | П        |  |  |  |  |
|       | 22<br>23<br>24<br>25<br>26<br>27                         |          |              |  |          |                | <u> </u> | _        |  | П        |  |  |  |  |
|       | 28   | ļ        |              | T  |          |                | Ι-       |          |  | П        |  |  |  |  |
|       | 28<br>29   | ı        | Г            | Г  |          |                |          |          |  |          |  |  |  |  |
|       | 30   |          |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 30<br>31   |          |              |  |          |                |          |          |  | Ш        |  |  |  |  |
|       | 32   |          | L            |  |          |                | L        | _        | L  | Ш        |  |  |  |  |
|       | 33   |          | <u> </u>     | <u> </u>   |          | _              | <u> </u> | _        | _  | Щ        |  |  |  |  |
|       | 34<br>35   | <u> </u> | <u> </u>     | <u> </u>   | <u> </u> | <u> </u>       |          | L        | _  | Ц        |  |  |  |  |
|       | 35   | $\vdash$ | <u> </u>     | _  | ļ        | _              | _        | _        | <u> </u>   | H        |  |  |  |  |
|       | 36<br>37   | -        | $\vdash$     | <u> </u>   | ├—       | <del> </del> - | -        |          | ⊢-   | Н        |  |  |  |  |
|       | 3/   | -        | ├-           | $\vdash$   |          | ⊢-             | -        |          | $\vdash$   | Н        |  |  |  |  |
|       | 38   | -        | ├-           | $\vdash$   |          | -              | -        | -        | -  | Н        |  |  |  |  |
|       | 39   | +        | ┼-           | $\vdash$   | -        |                | -        | _        |  | Н        |  |  |  |  |
| -     | 40   | $\vdash$ | $\vdash$     | <del>                                     </del> | -        | $\vdash$       | -        | $\vdash$ | <del> </del>                                     | Н        |  |  |  |  |
| -     | 42   | $\vdash$ | $\vdash$     | -  | $\vdash$ | $\vdash$       | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ |  |  |  |  |
| -     | 43   | ┢        | +-           |  |          | <del> </del>   | H        | $\vdash$ | $\vdash$   | Н        |  |  |  |  |
|       | 44   | $\vdash$ | t            | $\vdash$   | $\vdash$ | $\vdash$       | $\vdash$ | -        | $\vdash$   | Н        |  |  |  |  |
|       | 45   | 1        | $\vdash$     | T  |          | $\vdash$       | <u> </u> |          |  | М        |  |  |  |  |
|       | 46   | T        |              | İ  |          |                | Г        |          |  | П        |  |  |  |  |
|       | 47   | T        | Т            |  |          | Г              |          |          |  | П        |  |  |  |  |
|       | 48   |          |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 49   |          |              |  |          |                |          |          |  |          |  |  |  |  |
|       | 50   |          |              |  |          |                |          | Ĺ        |  |          |  |  |  |  |

| Cla      | Date     |          |          |                |          |  |                                     |          |          |          |  |  |  |
|----------|----------|----------|----------|----------------|----------|--|-------------------------------------|----------|----------|----------|--|--|--|
|          |          |          |          | П              | П        |  | Ī                                   |          |          |          |  |  |  |
| Final    | Original |          |          |                |          |  |                                     | ı        |          |          |  |  |  |
| ፲፰       | Ö        |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          |          |          | $\dashv$ | -              | $\dashv$ |  | -                                   | $\dashv$ | $\dashv$ | _        |  |  |  |
| <b>—</b> | 51<br>52 | -        |          | -              |          |  | -1                                  |          |          | _        |  |  |  |
|          | 52       | _        |          | _              | -        | $\dashv$   |                                     | -        |          | _        |  |  |  |
|          | 53       |          | _        |                |          | -  | -                                   | -        | $\dashv$ |          |  |  |  |
| <u> </u> | 54       |          |          |                |          | _  | _                                   | _        |          | -        |  |  |  |
|          | 55       |          |          |                |          |  |                                     |          | _        | _        |  |  |  |
| L        | 56       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 57       |          |          |                |          |  |                                     |          |          |          |  |  |  |
| 1        | 58       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 59       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 60       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 61       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 62       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 63       | П        |          |                | П        |  |                                     |          |          |          |  |  |  |
|          | 64       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 65       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 66       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 67       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 68       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 69       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 70       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 71       | Ш        |          |                |          |  |                                     |          |          |          |  |  |  |
| <u> </u> | 72       |          |          | _              |          |  |                                     |          |          | _        |  |  |  |
|          | 73       | Щ        |          |                | L.,      |  |                                     |          |          |          |  |  |  |
| <u> </u> | 74       | Щ        |          |                |          |  |                                     |          |          |          |  |  |  |
| -        | 75       | Ш        |          |                | $\vdash$ |  |                                     |          |          |          |  |  |  |
| $\vdash$ | 76<br>77 | $\vdash$ |          |                | _        | -  |                                     |          |          | _        |  |  |  |
|          | 78       | Н        | -        |                | <u> </u> | ┢  | -                                   |          |          | H        |  |  |  |
| -        | 79       | Н        |          |                |          | -  |                                     | _        | _        | ┢        |  |  |  |
| -        | 80       | $\vdash$ |          | $\vdash$       | $\vdash$ | _  |                                     |          |          | $\vdash$ |  |  |  |
|          | 81       | -        |          | -              | -        | -  |                                     |          |          | H        |  |  |  |
| -        | 82       | $\vdash$ |          | -              | -        | <del>                                     </del> | $\vdash$                            |          | $\vdash$ |          |  |  |  |
|          | 83       | $\vdash$ |          | <del>  -</del> | $\vdash$ | <del>                                     </del> |                                     |          | -        | _        |  |  |  |
|          | 84       | $\vdash$ | -        | $\vdash$       | $\vdash$ | -  |                                     | -        |          | _        |  |  |  |
|          | 85       |          |          | $\vdash$       | $\vdash$ | $\vdash$   | -                                   | _        | $\vdash$ | _        |  |  |  |
|          | 86       |          | _        |                | $\vdash$ | $\vdash$   |                                     | _        | $\vdash$ | ┢        |  |  |  |
|          | 87       | $\Box$   |          | $\vdash$       |          | T  |                                     |          | $\vdash$ |          |  |  |  |
|          | 88       |          |          |                | $\vdash$ |  |                                     |          |          |          |  |  |  |
|          | 89       |          |          |                |          | Г  |                                     |          |          | Г        |  |  |  |
|          | 90       | П        |          |                |          |  | П                                   |          |          |          |  |  |  |
|          | 91       |          |          |                | Ĺ        |  |                                     |          |          |          |  |  |  |
|          | 92       |          |          |                |          |  |                                     |          |          |          |  |  |  |
|          | 93       |          |          | L_             | L        |  |                                     | L        |          | L        |  |  |  |
|          | 94       |          |          | <u> </u>       | _        | _  |                                     | L        | L        | <u> </u> |  |  |  |
|          | 95       |          | L        | <u> </u>       | <u></u>  | <u> </u>   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L_       | _        | L        |  |  |  |
|          | 96       |          |          | <u> </u>       |          |  | <u> </u>                            |          |          | <u> </u> |  |  |  |
|          | 97       | L.       |          | <b> </b>       | ┞-       | <u> </u>   | <u> </u>                            | _        |          | -        |  |  |  |
| _        | 98       | <u> </u> | _        | <u> </u>       | $\vdash$ |  | <u> </u>                            | _        | _        | -        |  |  |  |
| -        | 99       | <u> </u> |          | ⊢              | $\vdash$ | <u> </u>   | -                                   | <u> </u> | <u> </u> | -        |  |  |  |
| 1        |          |          |          |                |          |  |                                     |          |          |          |  |  |  |

| laim _   | n Date            |          |          |           |  |              | Claim  |          |              | Date |          |            |                 |          |          |          |  |          |          |  |          |
|----------|-------------------|----------|----------|-----------|--|--------------|--|----------|--------------|------|----------|------------|-----------------|----------|----------|----------|--|----------|----------|--|----------|
|          |                   |          |          |           |  |              |  |          |              |      |          |            |                 |          |          |          |  |          |          |  |          |
| Original |                   |          |          |           |  |              |  |          |              |      | Final    | Original   |                 |          |          |          |  |          |          |  | ,        |
| 51       |                   | _        |          |           |  |              |  |          |              |      |          | 101        |                 |          |          |          | _  | _        |          | Ш  |          |
| 52       | $\sqcup$          |          | _        | _         | _  | $\perp$      |  |          |              |      |          | 102        |                 |          |          | _        | _  | <u> </u> |          |  |          |
| 53       | $\vdash$          | _        | _        |           | _  |              |  |          |              |      | _        | 103        | $\sqcup$        |          | _        |          | <u> </u>   | <u> </u> |          | -  |          |
| 54       | $\vdash$          | 4        | _        | _         |  |              |  | _        |              |      | _        | 104        | $\vdash \vdash$ | $\dashv$ |          |          | H  |          | -        | Н  |          |
| 55       | $\vdash$          |          | _        | _         |  |              |  |          |              |      | _        | 105        | Н               | -4       | _        | _        | ┡  | -        | -        | _  |          |
| 56       | -                 |          |          |           | _  | _            |  |          |              |      |          | 106<br>107 | H               |          | _        |          | -  | -        |          |  | _        |
| 57       | $\vdash$          | $\dashv$ | _        | $\dashv$  | $\dashv$   |              |  |          |              |      |          | 108        | $\vdash$        | $\dashv$ |          | -        | -  |          |          |  | _        |
| 58<br>59 | $\vdash$          | $\dashv$ |          |           | -  |              |  |          |              |      | _        | 109        | $\vdash$        | $\dashv$ |          | $\vdash$ | -  | $\vdash$ | $\vdash$ | $\vdash$   | _        |
| 60       | $\vdash$          | $\dashv$ | $\dashv$ |           | -  |              |  | _        |              |      |          | 110        | H               | $\dashv$ |          | $\vdash$ | ┢  | $\vdash$ |          |  |          |
| 61       | $\vdash$          | -        | $\dashv$ | $\dashv$  |  |              |  | _        | _            |      |          | 111        | H               |          |          |          | -  | H        |          |  | _        |
| 62       | $\vdash$          | -        | $\dashv$ | $\dashv$  | ÷  | H            | Н  | -        | $\vdash$     |      |          | 112        | H               | $\dashv$ |          |          | $t^-$  |          |          |  |          |
| 63       | $\dagger \exists$ | $\dashv$ |          | $\exists$ |  | П            |  | П        |              |      |          | 113        | П               | $\Box$   |          |          | T  |          |          | П  |          |
| 64       | $\vdash$          | $\dashv$ |          |           | _  |              |  | Г        |              |      |          | 114        | П               |          |          | Г        |  |          |          |  |          |
| 65       | Ħ                 |          |          | T         |  |              |  |          |              |      |          | 115        |                 |          |          |          |  | L        |          |  |          |
| 66       | П                 |          |          |           |  |              |  |          |              |      |          | 116        |                 |          |          |          |  |          |          |  |          |
| 67       |                   |          |          |           |  |              |  |          |              |      |          | 117        |                 |          |          |          |  |          |          |  |          |
| 68       |                   |          |          |           |  |              |  |          |              | ]    |          | 118        |                 |          |          |          |  |          |          |  |          |
| 69       |                   |          |          |           |  |              |  |          |              |      |          | 119        |                 |          |          |          |  |          | L        |  |          |
| 70       |                   |          |          |           |  |              |  |          |              |      | ļ        | 120        |                 |          |          |          | <u> </u>   |          |          |  | _        |
| 71       | $\sqcup$          |          |          |           |  | _            |  | _        |              |      |          | 121        | Ш               |          |          | _        | <u> </u>   |          |          |  |          |
| 72       | $\sqcup$          |          |          |           | _  | _            |  |          | _            |      |          | 122        |                 |          |          |          | ┡  | <u> </u> |          | <u> </u>   |          |
| 73       | $\perp$           |          |          |           |  | <u> </u>     | <u> </u>   | <u> </u> | <u> </u>     | ļ    | <u> </u> | 123        | Н               |          |          | _        | -  | 1        | -        |  |          |
| 74       | $\vdash$          |          |          |           | _  |              | -  | ┝        | ⊢            |      |          | 124        | Н               | -        | _        | $\vdash$ | ├-   | ├-       |          |  | _        |
| 75       | $\vdash$          |          |          |           | _  |              |  | <u> </u> |              |      |          | 125<br>126 | Н               | Н        | _        | $\vdash$ | ├  | -        | <u> </u> |  |          |
| 76<br>77 | ┼╌┤               |          |          |           | -  | $\vdash$     |  | $\vdash$ | $\vdash$     |      |          | 127        | $\vdash$        |          | _        | ⊢        | ├-   | -        |          |  |          |
| 78       | ┼┼                |          |          |           | _  | -            | -  | -        | $\vdash$     |      |          | 128        | Н               |          |          | ┢        | $\vdash$   | -        |          |  |          |
| 79       | $\vdash$          | -        |          |           | _  | ╢            | $\vdash$   | -        | $\vdash$     |      |          | 129        | Н               |          |          | $\vdash$ | <del>                                     </del> | -        |          |  | _        |
| 80       | $\vdash$          |          | _        |           | _  | $\vdash$     |  |          | $\vdash$     |      |          | 130        |                 |          |          | $\vdash$ | ╁  | <b>†</b> | $\vdash$ | $\vdash$   |          |
| 81       | $\Box$            |          | _        |           |  |              |  |          |              | İ    |          | 131        |                 |          | _        |          |  |          |          |  |          |
| 82       | $\Box$            |          |          |           |  |              |  |          |              | 1    |          | 132        |                 |          |          |          |  |          | Г        |  |          |
| 83       | $\Box$            |          |          |           |  |              |  |          |              | 1    |          | 133        |                 |          |          |          | Π  | Π        |          |  |          |
| 84       | $\Box$            |          |          |           |  |              |  |          |              | ]    |          | 134        |                 |          |          |          |  |          | 匚        |  |          |
| 85       |                   |          |          |           |  |              |  |          |              |      |          | 135        |                 |          |          |          |  |          | 匚        | 匚  |          |
| 86       |                   |          |          |           |  |              |  |          |              | 1    |          | 136        | $\Box$          |          |          | L        |  | _        |          |  |          |
| 87       | $\Box$            |          |          |           | L  |              | _  | _        | _            |      |          | 137        | $\perp$         | Ш        | _        | L        |  | ┞-       | _        | <u> </u>   | L.       |
| 88       | $\sqcup$          |          | L        | L         |  |              | <u> </u>   | _        |              |      | <u> </u> | 138        | $\vdash$        |          | _        | <u> </u> | <u> </u>   | ┞-       | _        | <u> </u>   |          |
| 89       | $\sqcup$          |          |          | L         | <u> </u>   |              | <u> </u>   | <u> </u> | _            | 1    |          | 139        | $\vdash$        | <u> </u> | _        | _        |  | $\vdash$ |          | <u> </u>   | $\vdash$ |
| 90       | -                 |          |          | L         | _  | <u> </u>     | <u> </u>   | <u> </u> | <u> </u>     | 1    |          | 140        | $\vdash$        | <u> </u> | L.       | <u> </u> |  | $\vdash$ | <u> </u> | <del> </del>                                     | $\vdash$ |
| 91       | $\sqcup$          |          |          | <u> </u>  | $\vdash$   | $\vdash$     | <u> </u>   |          | <del> </del> | ł    | -        | 141        | $\vdash$        | L        | _        | -        | ╄  | $\vdash$ | -        | $\vdash$   | $\vdash$ |
| 92       | +                 | _        |          | <u> </u>  | ├-   | <del> </del> | $\vdash$   | $\vdash$ | ⊢-           | ł    |          | 142        | $\vdash$        | $\vdash$ | -        | ⊢        | $\vdash$   | +-       | $\vdash$ | $\vdash$   | $\vdash$ |
| 93       | $\vdash$          |          |          | <u> </u>  | -  | $\vdash$     | -  | $\vdash$ | <del> </del> | 1    | -        | 143<br>144 | -               | -        | -        | $\vdash$ | +  | 1-       | ⊢        | $\vdash$   | _        |
| 94<br>95 | $\vdash$          |          | -        | $\vdash$  | $\vdash$   | $\vdash$     | -  | -        | <del> </del> | ł    |          | 145        | $\vdash$        | ⊢        | ⊢        | -        | ╁  | +        | ╁        |  | _        |
| 96       | $\vdash$          | _        | -        | H         | $\vdash$   | $\vdash$     | -  | $\vdash$ | $\vdash$     | ł    |          | 146        |                 | $\vdash$ | -        | ╁╌       | ╁  | 1        | +-       | <del>                                     </del> | $\vdash$ |
| 96       | $\vdash$          |          | -        | $\vdash$  | $\vdash$   | $\vdash$     | -  |          | $\vdash$     | ł    |          | 147        | -               | $\vdash$ | $\vdash$ | -        | 1  | +        | $\vdash$ |  | $\vdash$ |
| 98       | +                 |          |          | $\vdash$  | <del>                                     </del> | -            | +  | -        | -            | 1    |          | 148        | 1               | -        |          | $\vdash$ | $\vdash$   | +        | $\vdash$ |  | $\vdash$ |
| 99       | $\vdash$          | _        |          | $\vdash$  | -  | $\vdash$     | $\vdash$   |          | -            | 1    |          | 149        | H               | H        | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ | T        | $\vdash$   | $\vdash$ |
| 100      | $\vdash$          | _        | -        | H         | H  | Ι-           | <del>                                     </del> | $\vdash$ | t            | 1    |          | 150        | Н               | Н        | _        | T        | 1  | t        | t        |  | Г        |